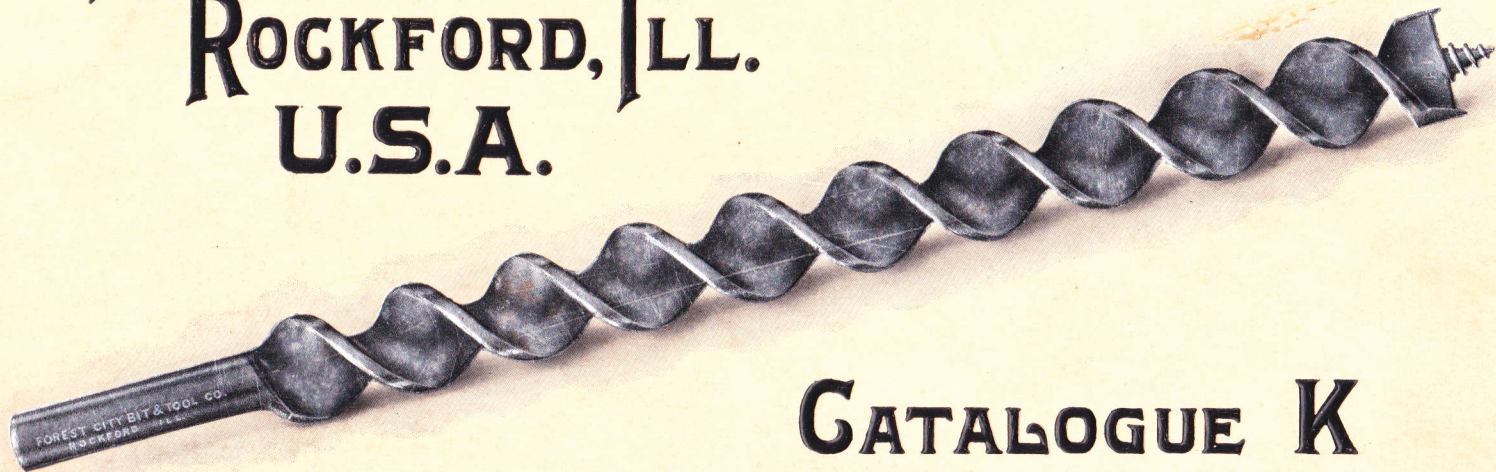


*Selden - Aug - 1912*

**FOREST CITY BIT & TOOL CO.**

**ROCKFORD, ILL.  
U.S.A.**



**CATALOGUE K**

**MORTISING AND BORING MACHINE SUPPLIES**

**1890-1911**

**OFFICE & FACTORY, ROCKFORD, ILL.**



FOREST CITY BILT 2

ROCKFORD, ILL.  
U.S.A.

CALVADOSE N

MORTISING AND BORING MACHINE SUPPLIES

OFFICE & FACTORY, ROCKFORD, ILL.

1880-1911



*Cable Address  
Forest City*

*Selden - Aug 9 - 1912*

CATALOG K  
1911

*Western Union  
Code Used*

THIS CATALOG CANCELS ALL PREVIOUS EDITIONS

*Forest City Bit & Tool Co.*

INCORPORATED 1890

MANUFACTURERS OF HIGH GRADE

HOLLOW MORTISING AND WOOD  
BORING TOOLS

ADAPTED FOR

*Planing Mills, Furniture, Sash, Door and Blind Factories; Car, Railway, Bridge and Agricultural Works; Buggy, Wagon and Carriage Builders; Spoke, Wheel, and Handle Factories; Colleges, Technical Schools, State Universities, Arsenal, Navy Yards, Ship Builders and other Institutions.*

*Factory and Main Office, ROCKFORD, ILLINOIS, U. S. A.*



## INTRODUCTION



We take pleasure in presenting you with our New Catalog K.

With this publication it has been our aim to illustrate our regular Hollow Mortising and Wood Boring Tools in a concise and practical way, adding only such information as may prove of value.

Consistent with our System each tool is carefully inspected after each operation and thoroughly tested before leaving the factory.

**ALL TOOLS ILLUSTRATED IN THIS CATALOG ARE MANUFACTURED IN OUR SHOPS, THOROUGHLY TESTED AND SOLD UNDER**

## OUR GUARANTEE

Every tool illustrated in this Catalog and stamped **Forest City** is made of the finest and toughest Tool Steel known to the market and is Fully Warranted against defects in Material and Workmanship.

If a defective tool should be found, same must be returned to us for examination and it will be replaced free of charge.

Thanking you for past favors and soliciting your future valued patronage, we remain,

Yours very respectfully,

**FOREST CITY BIT & TOOL COMPANY**

Factory and Main Office,

ROCKFORD, ILLINOIS, U. S. A.



## **HOLLOW MORTISING CHISELS AND BITS**

**T**HE Forest City Hollow Chisels and Bits are extensively used in thousands of Mortising Machines in **Car Shops, Wagon Shops, Planing Mills, Ship Building, and Sash and Door Factories** throughout the World. Many Boring Machines can be easily rigged up to use these Tools to good advantage.

In construction we use only the finest and toughest tool steel, which is specially prepared for these particular tools.

Our Chisels and Bits are forged and finished by methods strictly modern and up to date, and we employ only expert machinists.

It is of great importance that the Hollow Chisels and Chisel Bits are perfectly fitted to each other, and by manufacturing both the Chisels and Bits in the same factory we can always guarantee a perfect fit.

### **In Sharpening Chisels Care should be Taken.**

Always file the Chisel on the inside so as to have as much stock as possible in the cutting edges, thereby keeping a sharp, short cutting edge. The inside corner should be filed no thinner than the two bevels of the cutting lips.

The sides at cutting edges should be curved as illustrated on page 5.

Never sharpen a Chisel on the outside.

**Always use the Forest City Improved Hollow Chisels and Bits in your Hollow Mortising Machines and get your work done satisfactorily.**

## Adjustment of Bit in Chisel

This is very important, as follows:

First; always thoroughly fasten the Chisel in its socket. Then insert the Bit and leave a slight clearance between the cutting edges of the Chisel and side lips of the Bit. Then firmly fasten the Bit in its socket, as the most important part is to avoid having the Bit slip up into the Chisel so the cutting edges grind against the cutting edges of the Chisel, which will in every case burn and spoil the Bit and finally break the Chisel.

We would also suggest that the operator occasionally investigate and see that set screw for Bit is in proper condition, as sometimes they become worn and then do not hold the shank as firmly as it should.

## Sharpening Hollow Chisel Bits

Mortising under favorable conditions, the Hollow Chisel Bit cuts very fine chips, thoroughly broken, and readily carried in the twist through the Chisel.

In order to secure favorable results, the Bit must be sharp and properly shaped. All our Tools are carefully and properly sharpened, and it is only necessary to sharpen bits same as when received.

In sharpening Hollow Chisel Bits a flat or square file of medium fine cut should be used. The cutting edges should be sharpened either above or below. The side lips and spur should always be sharpened from the inside, never sharpened from the outside, which would reduce the size of the Bit. It is also well to have cutting edge of Bit in line with the side lips.

Bits sharpened in this condition, will always give the most favorable results.

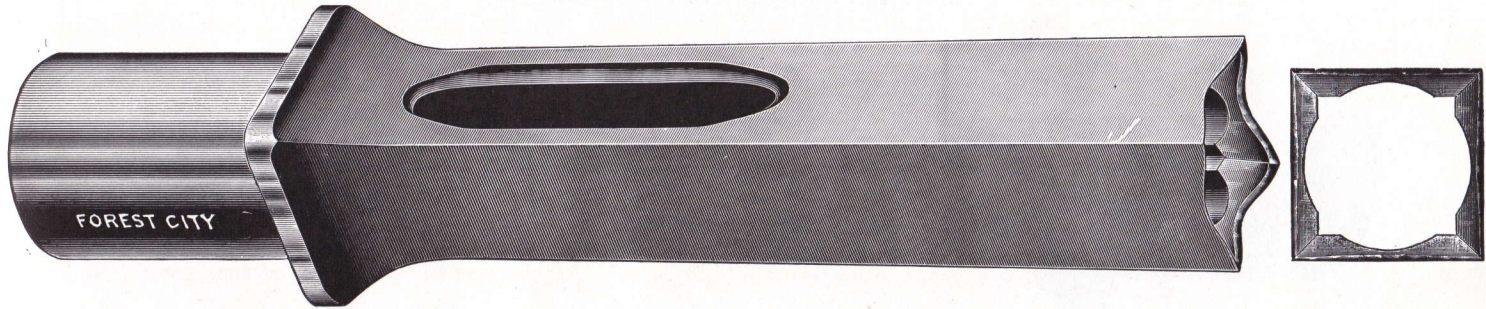
Worn down Chisel Bits, being smaller than Chisel, should be replaced with new Bits on account of extra strain on the Chisel.

WRITE FOR DISCOUNTS



## Improved Hollow Mortising Chisels No. 23

Made to Fit Any Mortising Machine



6½-inch blade for medium and large mortisers. 8-inch blade for car mortisers only.

Our Chisels are made to fit any style or make of Hollow mortising machines.

In ordering Chisels always give diameter and length of blade to shoulder, length and diameter of shank and **name of machine used** or send a sample of size wanted with the first order.

All sizes of Chisels listed are carried in stock. Special sizes made to order promptly.

**Price List, Page 7.**

See page 11 for Collars and Bushings used in connection with these Chisels.

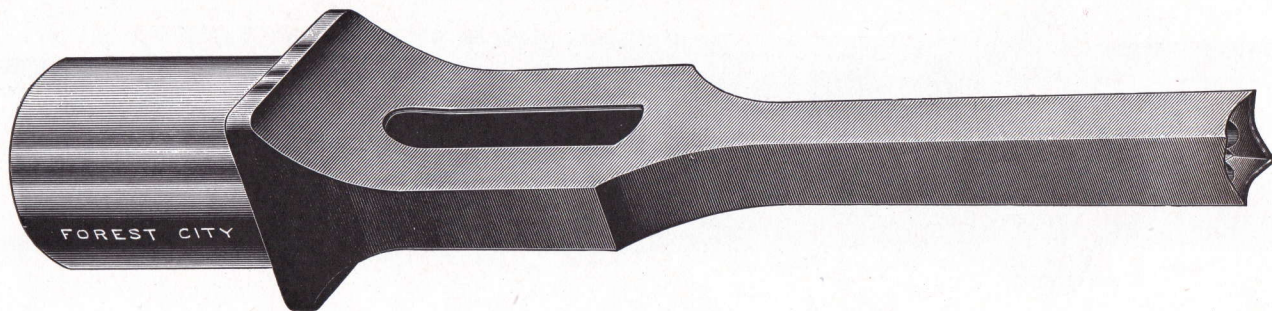
Always use the Forest City Improved Hollow Chisels and Bits as they will work Perfectly and last longer.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Improved Re-enforced Mortising Chisel No. 24

Made to Fit Any Mortising Machine



6½-inch blade for medium and large mortisers.

Our re-enforced style of Hollow Chisel for small sizes, which are used in large car mortising machines and mortising not over three inches deep, are made with an enlarged section near the shoulder which makes the Chisel very stiff and strong, and gives sufficient space for placing openings on both sides, making an extra good clearance for chips and does not interfere with the strength of the blade. Price List Page 7. See page 11 for Collars and Bushings used in connection with these Chisels.

Always use Our Bits for these Chisels and they will do the work in every way satisfactory.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



# Medium and Long Hollow Mortising Chisels and Bits

MADE TO FIT ANY MORTISING MACHINE

Medium Hollow Chisels, 6½-inch Blade. Long Hollow Chisels, 8-inch Blade.

## STANDARD PRICE LIST

### HOLLOW CHISELS.

#### 6½-Inch Blade.

Size.	
3-8 inch.....	\$ 5 20
7-16 " .....	5 50
1-2 " .....	5 80
9-16 " .....	6 10
5-8 " .....	6 40
11-16 " .....	6 70
3-4 " .....	7 00
13-16 " .....	7 30
7-8 " .....	7 60
15-16 " .....	7 90
1 " .....	8 20
1 1-8 " .....	9 00
1 1-4 " .....	9 70
1 3-8 " .....	10 60
1 1-2 " .....	11 50
1 5-8 " .....	12 60
1 3-4 " .....	13 60
1 7-8 " .....	14 80
2 " .....	16 00
2 1-8 " .....	17 50
2 1-4 " .....	19 00
2 1-2 " .....	22 60
2 3-4 " .....	26 00
3 " .....	30 00

### HOLLOW CHISEL BITS.

Size.	9-Inch Twist.	10-Inch Twist.
3-8 inch.....	\$ 95	\$1 05
7-16 " .....	1 05	1 15
1-2 " .....	1 15	1 25
9-16 " .....	1 30	1 40
5-8 " .....	1 40	1 50
11-16 " .....	1 55	1 65
3-4 " .....	1 65	1 80
13-16 " .....	1 80	1 95
7-8 " .....	1 95	2 10
15-16 " .....	2 10	2 25
1 " .....	2 25	2 40
1 1-8 " .....	2 50	2 70
1 1-4 " .....	2 75	3 00
1 3-8 " .....	3 00	3 30
1 1-2 " .....	3 25	3 60
1 5-8 " .....		3 90
1 3-4 " .....		4 25
1 7-8 " .....		4 55
2 " .....		4 90
2 1-8 " .....		5 35
2 1-4 " .....		5 75
2 1-2 " .....		6 60
2 3-4 " .....		8 00
3 " .....		9 50

### HOLLOW CHISELS.

#### 8-Inch Blade.

Size.	
5-8 inch.....	\$ 7 25
3-4 " .....	7 50
13-16 " .....	7 90
7-8 " .....	8 20
15-16 " .....	8 60
1 " .....	8 90
1 1-8 " .....	9 80
1 1-4 " .....	10 60
1 3-8 " .....	11 60
1 1-2 " .....	12 60
1 5-8 " .....	13 80
1 3-4 " .....	14 90
1 7-8 " .....	16 20
2 " .....	17 50
2 1-8 " .....	19 10
2 1-4 " .....	20 70
2 1-2 " .....	24 50
2 3-4 " .....	28 50
3 " .....	33 00

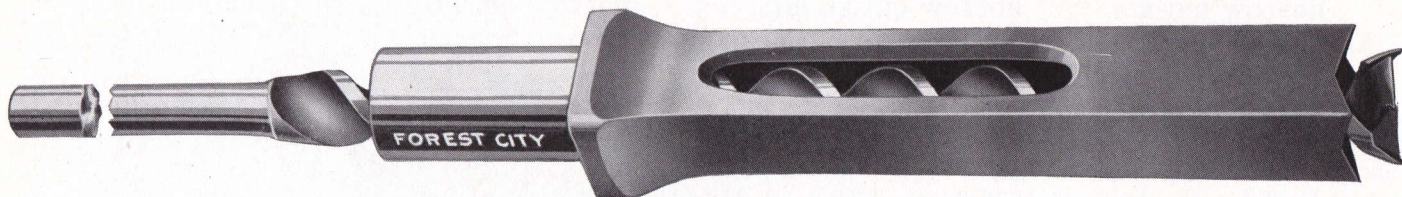
### HOLLOW CHISEL BITS.

Size.	11-Inch Twist.
5-8 inch.....	\$ 1 65
3-4 " .....	1 95
13-16 " .....	2 10
7-8 " .....	2 25
15-16 " .....	2 40
1 " .....	2 55
1 1-8 " .....	2 85
1 1-4 " .....	3 15
1 3-8 " .....	3 45
1 1-2 " .....	3 75
1 5-8 " .....	4 10
1 3-4 " .....	4 50
1 7-8 " .....	4 85
2 " .....	5 20
2 1-8 " .....	5 70
2 1-4 " .....	6 10
2 1-2 " .....	7 00
2 3-4 " .....	8 25
3 " .....	10 00

WRITE FOR DISCOUNTS

## Improved Hollow Mortising Chisel No. 28

Made to Fit Any Mortising Machine



Short Chisels for small mortisers. Blade 4 inches long and under.

Hollow Chisels made with 4-inch blade are used in sash and other mortising machines for doing work 1-4 inch up to 3-4 inch. Bits with 6-inch twist are used in connection with these.

As per list on page 10 these Chisels are made to cut oblong as well as square mortises. This feature makes them very useful, especially in sash and door factories.

All sizes of chisels listed are carried in stock. Price list on page 10.

Special sizes made to order promptly upon receipt of complete dimensions.

Always give length of blade and size of shank, **also name of machine used.**

See page 11 for Collars and Bushings used in connection with these Chisels.

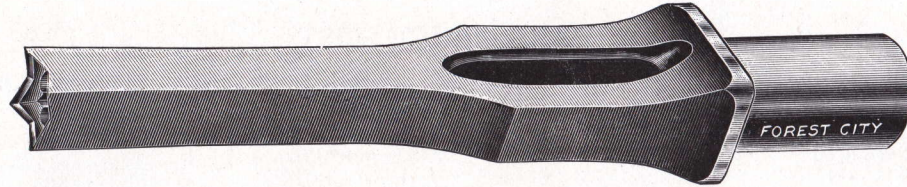
**Our Chisels are guaranteed to do the work in every way satisfactory.**

**When Ordering Use List Number.**

**WRITE FOR DISCOUNTS**



## Improved Re-enforced Mortising Chisel No. 29



Blade 4 inches long.

Our re-enforced style of Hollow Chisel we recommend when the Chisel is under **3-8** inch in size and mortised not over 2 inches deep.

These Chisels are made with an enlarged section near the shoulder which makes the Chisel very stiff and strong, and gives sufficient space for placing openings on both sides, thereby making an extra good clearance for chips and does not interfere with the strength of the blade.

Always give length of blade and size of shank, **also name of machine used.** Price list on page 10. See page 11 for Collars and Bushings used in connection with these Chisels.  
**For Fast and Clean Mortising always use the Forest City Chisels and Bits.**

When Ordering Use List Number.

WRITE FOR DISCOUNTS

# Short Hollow Mortising Chisels and Bits

Made to Fit Any Mortising Machine

SHORT CHISELS FOR SMALL MORTISERS. BLADE 4 INCHES LONG AND UNDER.

## STANDARD PRICE LIST

### HOLLOW CHISELS.

4-Inch Blade.			
		inch each	
1-4 x	1-4	inch each	\$3 20
5-16 x	5-16	" "	3 20
5-16 x	1-4	" "	3 20
3-8 x	3-8	" "	3 20
3-8 x	5-16	" "	3 20
7-16 x	7-16	" "	3 50
7-16 x	3-8	" "	3 50
1-2 x	1-2	" "	3 80
1-2 x	7-16	" "	3 80
1-2 x	3-8	" "	3 80
9-16 x	9-16	" "	4 10
9-16 x	1-2	" "	4 10
9-16 x	3-8	" "	4 10
5-8 x	5-8	" "	4 40
5-8 x	1-2	" "	4 40
5-8 x	7-16	" "	4 40
11-16 x	11-16	" "	4 70
11-16 x	1-2	" "	4 70
3-4 x	3-4	" "	5 00
3-4 x	1-2	" "	5 00
13-16 x	13-16	" "	5 30

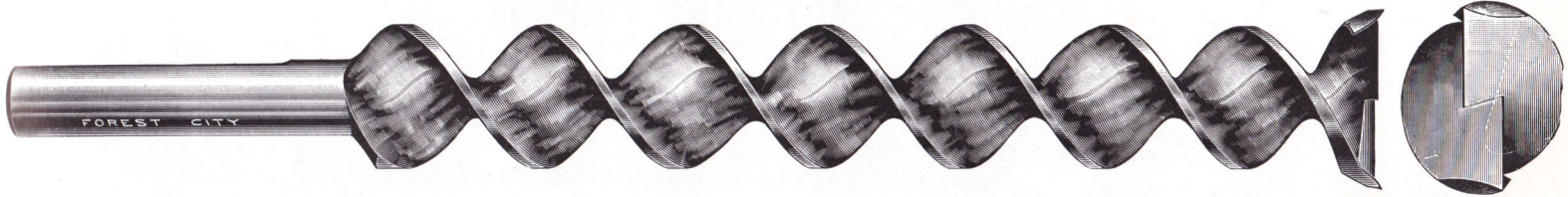
### HOLLOW CHISEL BITS.

6-Inch Twist.			
		inch, each	\$
1-4	inch, each		65
5-16	" "		65
3-8	" "		70
7-16	" "		80
1-2	" "		90
9-16	" "		1 00
5-8	" "		1 10
11-16	" "		1 20
3-4	" "		1 30
13-16	" "		1 40

WRITE FOR DISCOUNTS



## Hollow Chisel Bits No. 100



COLLAR No. 1.



Price Each, \$1.00 Net.

COLLAR No. 2.



Price Each, 50c Net.

We make Hollow Chisel Bits suitable for all styles of Mortising Machines, in all sizes of diameter and length of twist.

When ordering Hollow Chisel Bits, always give complete description, as follows: Diameter of head, twist, and shank, also length of twist and shank, and **name of Machine you are using.** **We guarantee a perfect fit.**

For regular medium long Hollow Chisels having  $6\frac{1}{2}$  inch blade, up to  $1\frac{1}{2}$  inch square, Bits with 9 inch twist 12 inches long over all are necessary when medium size Mortiser is used.

For Car Mortiser, Bits with 10 inch twist 14 inches long over all are used.

For regular long Hollow Chisels with 8 inch blade, Bits with 11 inch twist 15 inches long over all are used.

For Hollow Chisels with 4 inch blade, Bits with 6 inch twist 9 inches long over all are used, in small Mortisers and Combination Relishers and Mortisers, also smaller sizes in medium Mortisers.

When 4 inch blade Chisels are used in Car Mortisers, Bits with 6 inch twist, 5 inch long shank, 11 inches long over all are necessary.

When Hollow Chisels and Bits having special diameter shank are ordered we recommend that a collar or bushing be used. We can furnish collars so that the regular standard shank on Chisels and Bits can be used, thereby making a large saving to the user, when it is possible to adopt standard shanks. Otherwise, Tools are made as ordered, but will be special.

All sizes listed are carried in stock.

Special sizes made to order upon receipt of complete dimensions.

Price List pages 7 and 10.

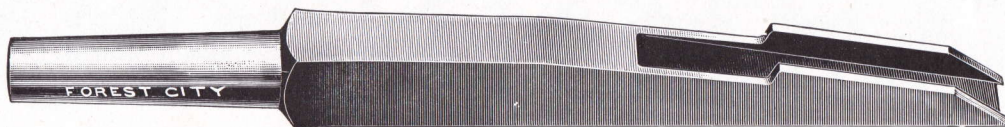
**OUR CHISELS AND BITS ARE GUARANTEED SUPERIOR TO ANY OTHER IN MATERIAL, CONSTRUCTION, DURABILITY AND TEMPER.**

**When Ordering Use List Number.**

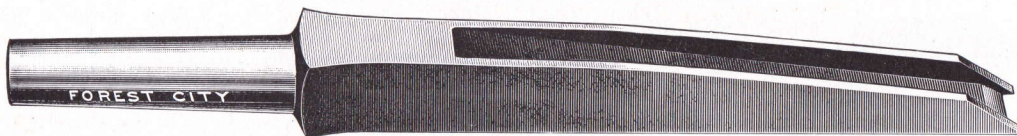
**WRITE FOR DISCOUNTS**

## Common Mortising Chisels

No. 30.

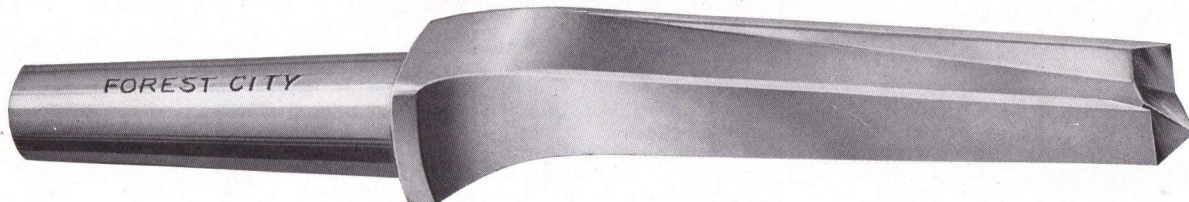


No. 31.



## Hub Mortising Chisels

No. 33.



When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Common Mortising Chisels

Sash and Door Mortising Chisels are suitable for the usual sizes of the common mortising machines. The different machine makers use various tapers on these chisel shanks.

Car Mortising Chisels are a long pattern for heavy mortisers with large shanks.

To avoid any delay in filling orders always send sample with first order, giving complete dimensions of goods wanted, also length and size of taper shank.

**Always specify name of machine used.**

Hub Mortising Chisels are made extra heavy of special design, suitable for the Hub Machines.

Our Chisels are made of High Grade tool steel and finished accurately, and tempered by methods strictly up to date.

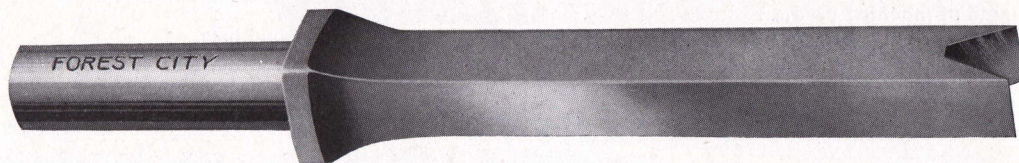
### STANDARD PRICE LIST

Size, Inches	Regular Car Mortiser	Special Car Mortiser	Agricultural and Hub Mortiser	Regular Sash and Door Mortiser
1-4 inch	\$2 25 each	\$2 70 each	\$1 50 each	\$1 00 each
5-16 "	2 25 "	2 70 "	1 50 "	1 00 "
3-8 "	2 25 "	2 70 "	1 50 "	1 00 "
1-2 "	2 25 "	2 70 "	1 50 "	1 00 "
5-8 "	2 25 "	2 95 "	1 50 "	1 00 "
3-4 "	2 50 "	3 70 "	1 75 "	1 25 "
7-8 "	2 50 "	3 70 "	1 75 "	1 25 "
1 "	2 75 "	3 95 "	1 75 "	1 25 "
1 1-8 "	2 75 "	3 95 "	2 00 "	1 50 "
1 1-4 "	3 00 "	3 95 "	2 00 "	1 50 "
1 3-8 "	3 00 "	4 20 "	2 50 "	2 00 "
1 1-2 "	3 25 "	4 20 "	2 50 "	2 00 "
1 5-8 "	3 25 "	4 50 "	3 00 "	2 25 "
1 3-4 "	3 50 "	4 50 "	3 00 "	2 25 "
2 "	3 50 "	4 70 "	3 50 "	2 25 "

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Franking Chisel No. 34



This Special Style Chisel is used in Franker Machines for thin mortising.

These Chisels are generally made  $\frac{1}{4}$  inch or less in thickness with any desired width, and Blades about  $3\frac{3}{4}$  inches long.

As the different Machines take different diameter of shanks, always specify the length and diameter of shank wanted. If Taper shank is wanted, kindly send sample when placing order.

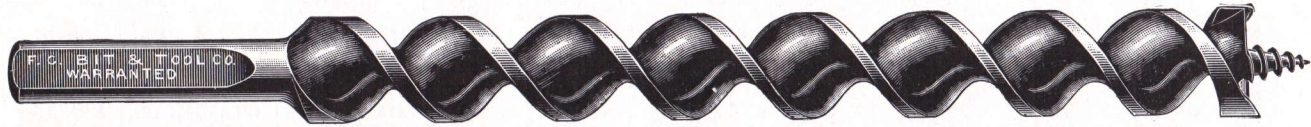
Regular Chisel. Price List, \$1.00 Each.

Made promptly on receipt of order.

WRITE FOR DISCOUNTS



## Snell Pattern Machine Bit No. 101



In order to execute orders for the ordinary sizes of machine bits promptly, we carry constantly in stock Snell's pattern machine Bits as follows:  $\frac{3}{16}$  to  $\frac{5}{16}$  in **4-inch**, **5-inch**, **6-inch**, **8-inch**, **10-inch** and **12-inch** twist, all with  $2\frac{1}{4} \times \frac{1}{2}$  turned shanks. Also milled for set-screw when desired. Screw points of standard size and thread.

This machine bit is most extensively used of all patterns, and is recommended for all purposes except those of a special nature.

We use only the **Best Materials** in the manufacture of our goods. **Our Aim is to Excel all Others in Quality and Workmanship.**

Our make of bits designed especially for car manufacturers and others where extra fast and heavy boring is required, have large open clearance for chips. Twisted from a plate forged to a convex section, re-enforced near the shank; this makes a very stiff and strong center, less liable to break or follow the grain when boring at high speed.

We make this style of bit any diameter and any length desired.

Bits with twist irregular length or shanks with odd size made promptly to order upon receipt of complete specifications. Al-

though we would suggest that bits of Standard Length of twist and Standard diameter of shanks be used, as tools of special length and diameter of shank will cost more. Left Hand Bits made promptly on receipt of order. Price double the list.

Pneumatic portable boring machine bits with special short shanks are carried in all sizes.

**An additional charge will be made for taper shanks or shanks of unusual size.**

To insure perfect fit when special or taper shanks are wanted, a sample of same should be sent with the order.

All bits made by odd 32nds will be charged the price of the 16th larger. Price list on pages 16 and 17.

Always name length and diameter of twist, and length and diameter of shank.

Special orders will receive our prompt and careful attention.

In boring machines always use the Forest City Bits and get good results.

**Our Machine Bits are acknowledged to be the best boring bits.**

WRITE FOR DISCOUNTS

# Standard Machine Bit Price List

Size	Twist 4, 5 or 6 inches long		Twist 8 inches long		Twist 10 inches long		Twist 12 inches long		Twist 14 inches long		Twist 16 inches long	
	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.
4-16	\$ 7 50	\$ 65	\$ 8 10	\$ 70	\$ 9 30	\$ 85	\$10 00	\$ 90				
5-16	8 00	70	8 65	75	9 30	85	10 00	90				
6-16	8 50	75	9 20	85	9 90	90	10 60	95	\$11 30	\$1 00	\$13 00	\$ 1 15
7-16	9 50	85	10 35	95	11 15	1 00	11 95	1 10	12 85	1 15	14 80	1 35
8-16	10 00	90	11 00	1 00	11 90	1 10	12 90	1 15	13 80	1 25	15 90	1 45
9-16	10 50	95	11 50	1 05	12 60	1 15	13 70	1 25	14 70	1 35	16 90	1 55
10-16	11 50	1 05	12 65	1 15	13 80	1 25	15 00	1 35	16 10	1 50	18 50	1 75
11-16	12 50	1 15	13 75	1 25	15 00	1 35	16 25	1 50	17 50	1 60	20 15	1 85
12-16	14 00	1 25	15 40	1 40	16 80	1 50	18 20	1 65	19 60	1 75	22 60	2 00
13-16	15 50	1 40	17 00	1 55	18 60	1 65	20 20	1 80	21 70	1 95	25 00	2 25
14-16	16 75	1 50	18 50	1 65	20 10	1 80	21 80	1 95	23 50	2 10	27 10	2 45
15-16	18 00	1 60	19 80	1 75	21 60	1 95	23 40	2 10	25 20	2 25	29 00	2 60
16-16	19 50	1 70	21 50	1 90	23 40	2 10	25 40	2 20	27 30	2 40	31 40	2 75
17-16	21 00	1 85	23 10	2 05	25 20	2 25	27 30	2 40	29 40	2 60	33 80	3 00
18-16	22 50	2 00	24 75	2 20	27 00	2 35	29 25	2 60	31 50	2 75	36 25	3 20
19-16	24 00	2 10	26 40	2 30	28 80	2 50	31 20	2 75	33 60	2 95	38 70	3 40
20-16	25 50	2 25	28 00	2 50	30 60	2 70	33 20	2 95	35 70	3 15	41 10	3 65
21-16	27 00	2 35	29 70	2 60	32 40	2 85	35 20	3 05	37 80	3 30	43 50	3 80
22-16	28 50	2 50	31 40	2 75	34 20	3 00	37 00	3 25	40 00	3 50	46 00	4 05
23-16	30 00	2 60	33 00	2 85	36 00	3 15	39 00	3 35	42 00	3 60	48 30	4 15
24-16	31 50	2 75	34 70	3 00	37 80	3 30	41 00	3 60	44 10	3 85	50 70	4 45
25-16	33 00	2 85	36 30	3 15	39 60	3 40	43 00	3 70	46 20	4 00	53 20	4 60
26-16	34 50	3 00	38 00	3 30	41 40	3 60	45 00	3 90	48 30	4 20	55 55	4 85
27-16	36 00	3 10	39 60	3 40	43 20	3 75	46 80	4 05	50 40	4 35	58 00	5 00
28-16	37 50	3 25	41 25	3 55	45 00	3 90	48 75	4 25	52 50	4 55	60 40	5 25
29-16	39 00	3 35	43 00	3 70	46 80	4 05	50 70	4 40	54 60	4 70	62 80	5 40
30-16	40 50	3 50	44 50	3 85	48 60	4 20	52 70	4 55	56 70	4 90	65 20	5 65
31-16	42 00	3 60	46 25	4 00	50 40	4 35	54 60	4 70	58 80	5 05	67 70	5 80
32-16	43 50	3 75	48 00	4 15	52 20	4 50	56 60	4 90	61 00	5 25	70 20	6 00

WRITE FOR DISCOUNTS



# Standard Machine Bit Price List

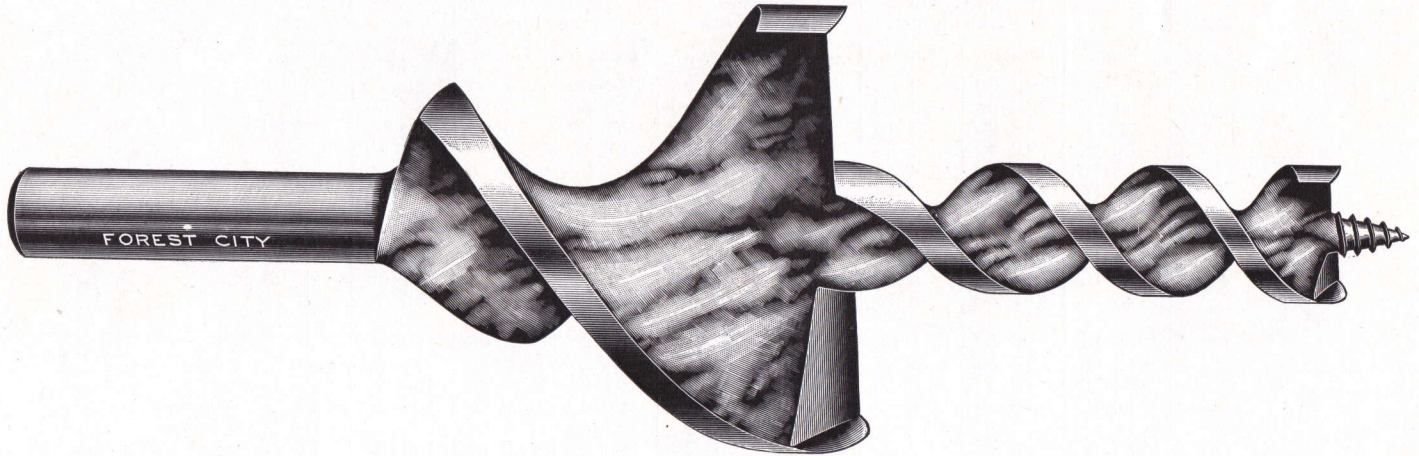
Size.	Twist 4, 5 or 6 inches long		Twist 8 inches long		Twist 10 inches long		Twist 12 inches long	
	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.
33-16	\$ 45 00	\$ 3 85	\$49 75	\$ 4 35	\$54 00	\$ 4 65	\$ 58 60	\$ 5 05
34-16	46 50	4 00	51 50	4 50	55 80	4 80	60 60	5 25
35-16	48 00	4 10	53 25	4 65	57 60	5 00	62 60	5 50
36-16	49 50	4 25	55 00	4 80	59 40	5 20	64 60	5 75
38-16	52 50	4 50	58 50	5 10	63 00	5 60	68 60	6 25
40-16	55 50	4 75	62 00	5 40	66 60	6 00	72 60	6 75
42-16	58 50	5 00	65 50	5 70	70 20	6 40	76 60	7 25
44-16	61 50	5 25	69 00	6 00	73 80	6 80	80 60	7 75
46-16	64 50	5 50	72 50	6 30	77 40	7 20	84 60	8 25
48-16	67 50	5 75	76 00	6 60	81 00	7 60	88 60	8 75
50-16	70 50	6 00	79 50	6 90	84 60	8 00	92 60	9 25
52-16	73 50	6 25	83 00	7 20	88 20	8 40	96 60	9 75
54-16	76 50	6 50	86 50	7 50	91 80	8 80	100 60	10 25
56-16	79 50	6 75	90 00	7 80	95 40	9 20	104 60	10 75
58-16	82 50	7 00	93 50	8 10	99 00	9 60	108 60	11 25
60-16	85 50	7 25	97 00	8 40	102 60	10 00	112 60	11 75
62-16	88 50	7 50	100 50	8 70	106 20	10 40	116 60	12 25
64-16	91 50	7 75	104 00	9 00	109 80	10 80	120 60	12 75
66-16	94 50	8 00	107 50	9 30	113 40	11 20	124 60	13 25
68-16	97 50	8 25	111 00	9 60	117 00	11 60	128 60	13 75
70-16	100 50	8 50	114 50	9 90	120 60	12 00	132 60	14 25
72-16	103 50	8 75	118 00	10 20	124 20	12 40	136 60	14 75
74-16	106 50	9 00	121 50	10 50	127 80	12 80	140 60	15 25
76-16	109 50	9 25	125 00	10 80	131 40	13 20	144 60	15 75
78-16	112 50	9 50	128 50	11 20	135 00	13 60	148 60	16 25
80-16	115 50	9 75	132 00	11 40	138 60	14 00	152 60	16 75

WRITE FOR DISCOUNTS

## Machine Countersink Bit No. 112

Our Great Labor Saving Tool

Made Promptly to Order



**The Forest City Countersink Machine Bits are acknowledged to be the strongest and most freely cutting tools made.**

Our Countersink Machine Bits will bore fast and accurate in one operation, a hole having two or more different diameters, thereby saving a great deal of time and labor.

We make Countersink Bits with several different diameters when desired. These are generally used in Car Shops for Special Countersinking. We also make Special Countersink Bits for countersinking for Piano Casters.

Always name complete dimensions as follows: Size and length of small bit, size and length of large bit, size and length of shank. Made with regular shank,  $2\frac{1}{4}$  inches by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

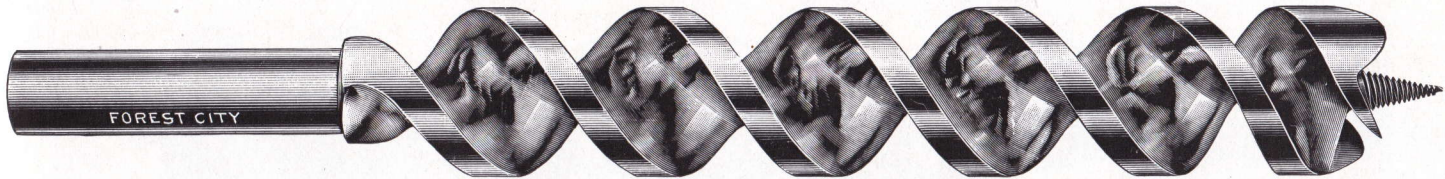
Add prices of the different diameters to get list price. See pages 16 and 17.

**When Ordering Use List Number.**

**WRITE FOR DISCOUNTS**



## Jennings Pattern Machine Bit No. 102



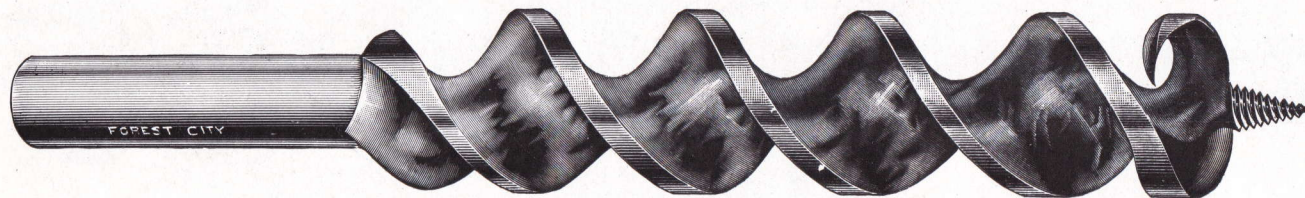
Made promptly to order. List price the same as the regular goods pages 16 and 17 Name complete dimensions. This bit will bore an extra smooth hole and is popular with manufacturers of furniture, cabinet work, sash and doors.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Cook's Pattern Machine Bit No. 121



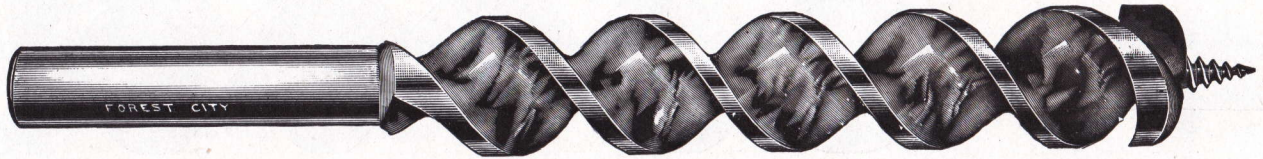
Made promptly to order. List price the same as the regular goods, pages 16 and 17. Name complete dimensions. Suitable for end-boring in any kind of stock, and is extensively used in cooper shops. Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Round-Cut Machine Bit No. 106



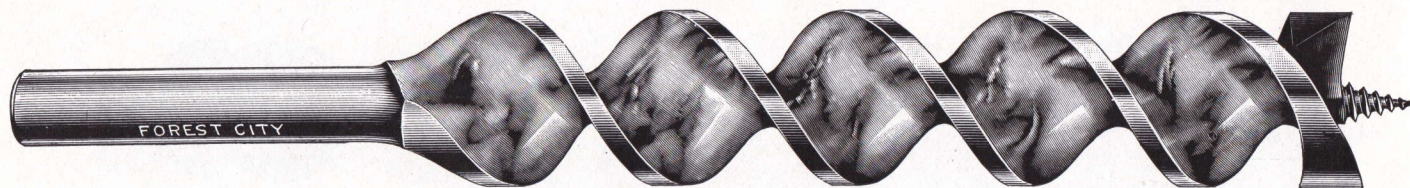
Made promptly to order. List price the same as the regular goods, pages 16 and 17. Name complete dimensions. This bit is extensively used in the manufacture of agricultural implements. Used for end-boring; will not split stock. Also used for angle boring.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Hardesty Pattern Machine Bit No. 105



Made promptly to order. List price the same as the regular goods, pages 16 and 17. This bit is popular with the wagon manufacturers. Will not tear the stock in passing through. Name complete dimensions.

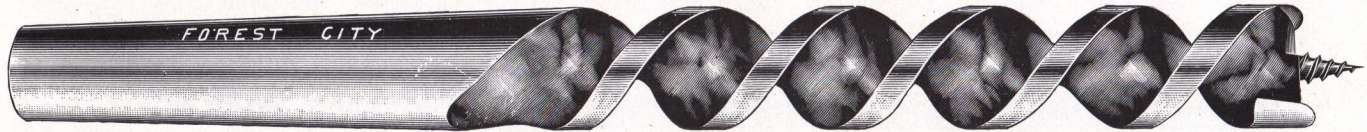
Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Snell Pattern Left-Hand Machine Bit No. 108



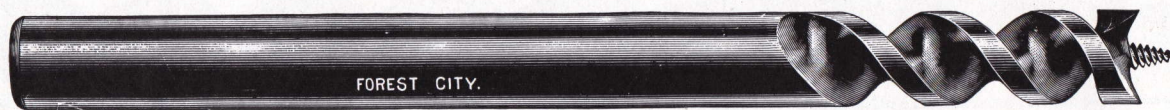
Made to order promptly. Name complete dimensions. We make this bit in Snell, Round-cut, Jennings, Acme and Flat-cut pattern. Used in boring machines where bits are run in gangs, right and left. List upon these bits double the regular Machine Bit List on pages 16 and 17.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Hardesty Pattern Felloe Bit No. 109



This style of bit is made with very short, slender screws, and will not split the stock, and are extensively used by manufacturers of vehicle wheels.

We carry all sizes of Felloe Bits in stock, having 2-inch twist and  $\frac{1}{2}$  by 3-inch shank. Special sizes made promptly to order.

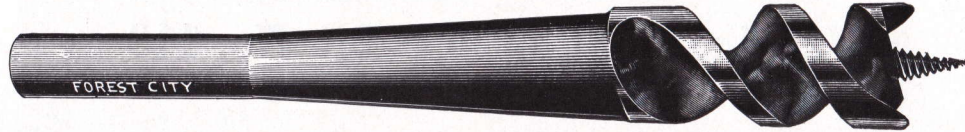
Name complete dimensions. For price list see pages 16 and 17.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



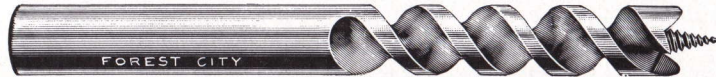
## Relishing Bit No. 104



Standard sizes have  $1\frac{3}{4} \times \frac{3}{8}$  shanks, 5 inches over all. Jennings pattern. Special sizes and left-hand Relishing Bits promptly made to order, on which name complete dimensions. This style of Bit is used in sash relishing machines.

See Machine Bit List, pages 16 and 17, for price list.

## Colburn Blind Stile Bit No. 103



Extensively used by coopers, also piano and organ manufacturers.

Standard sizes have  $1\frac{3}{4} \times \frac{3}{8}$  turned shanks, with Jennings pattern; twist  $1\frac{3}{4}$  long,  $3\frac{1}{2}$  inches over all.

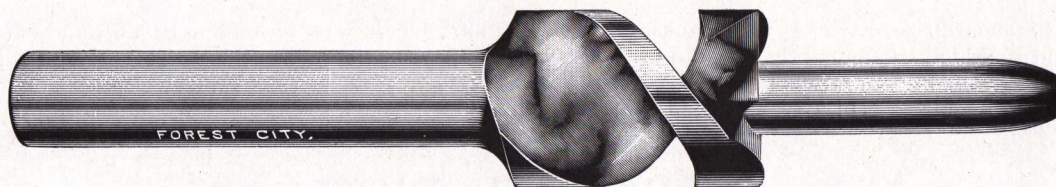
We make these bits in all sizes and styles. Special sizes made to order promptly.

See Machine Bit List, pages 16 and 17, for price list.

**When Ordering Use List Number.**

**WRITE FOR DISCOUNTS**

## Machine Counterbore Bit No. 113



Made promptly to order upon receipt of complete dimensions.

Made to follow holes already bored, to countersink in two operations.

Add prices of the bit and the round point to get list price, see pages 16 and 17.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

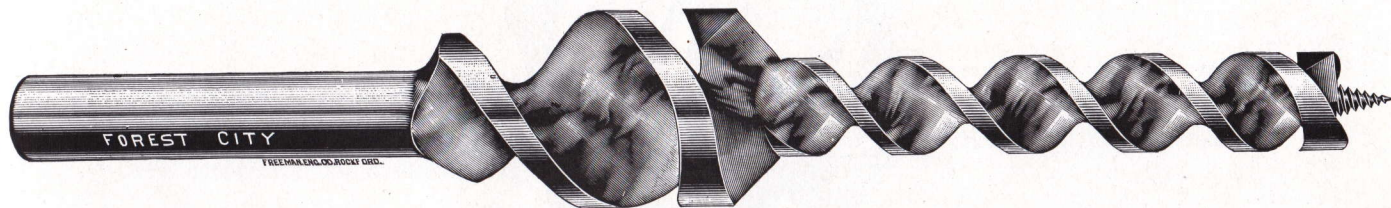
Always give complete dimensions of length and size of all parts.

**When Ordering Use List Number.**

**WRITE FOR DISCOUNTS**



## Special Machine Countersink Bit No. 114



This is a special style of Countersink Bit which is used in smaller sizes. The larger cut is beveled which is specially adapted for setting screw on bolt heads.

When ordering always send a sample or a drawing showing complete dimensions.

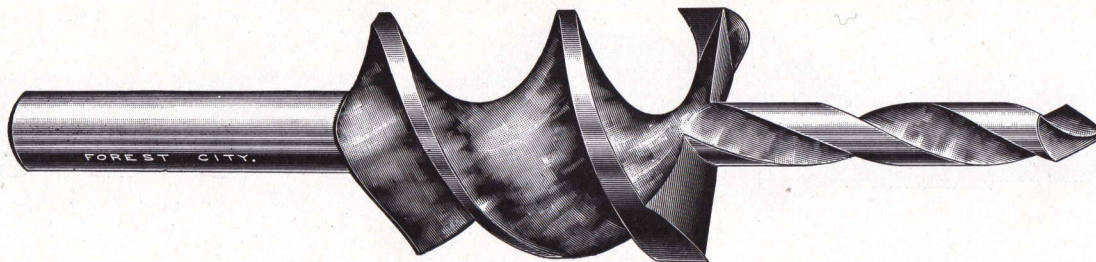
To obtain list price add price of both diameters. See pages 16 and 17.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

**When Ordering Use List Number.**

**WRITE FOR DISCOUNTS**

## Machine Countersink Drill and Bit for Wood No. 116



This style of bit is preferred by some for boring and countersinking small size holes where the depth of the small part does not exceed 2 inches, nor the size very large.

Add prices of diameter of bit and diameter of drill to get list price. See pages 16 and 17.

The countersink can be made either beveled or square head. The countersink part is made with square head unless otherwise ordered.

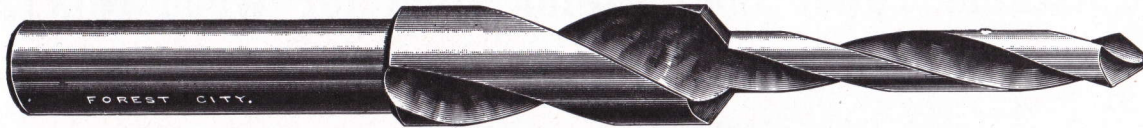
Regular shank  $2\frac{1}{4} \times \frac{1}{2}$  inch diameter. Always give complete dimensions of length and size of all parts.

**When Ordering Use List Number.**

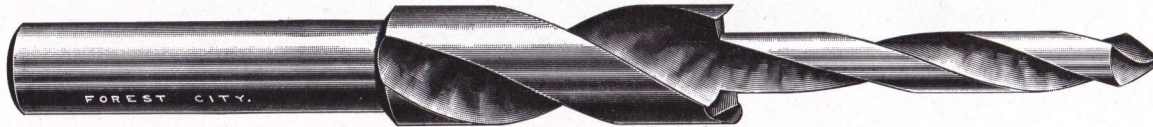
WRITE FOR DISCOUNTS



## Machine Countersink Drill for Wood No. 117 and 118



No. 117 Countersink, Beveled Head.



No. 118 Countersink, Square Head.

Above Tools being made solid, eliminates the chance of chips clogging where small part joins the large part, thereby these tools bore easier and cleaner than any other tool of its kind made.

This style of Countersink Drill is extensively used in Furniture Factories and Wagon Shops for countersinking for small screw heads, washers and bolt heads.

The Countersink can be made either beveled or square head.

All stock sizes, large part made 2 inches long, small part about 1½ inches long.

We recommend that the small part be as short as possible, in order to give strength to same.

Special sizes and lengths made to order.

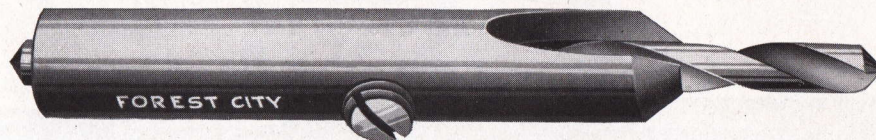
Made with regular shank, 2¼ inches by ½ inch diameter, unless otherwise specified.

Add prices of the diameter of large and small parts to get list price. See page 44.

**When Ordering Use List Number.**

**WRITE FOR DISCOUNTS**

## Adjustable Taper Countersink Drill for Wood No. 124



This Countersink is made so a Drill runs through, and can readily be adjusted any depth desired and fastened by set screw.

This Tool is used for countersinking for small screw heads.

Length of Countersink, 3 inches.

Total length of Countersink and Drill,  $4\frac{1}{2}$  inches.

Regular shank,  $1\frac{1}{2}$  by  $\frac{1}{2}$  inch diameter.

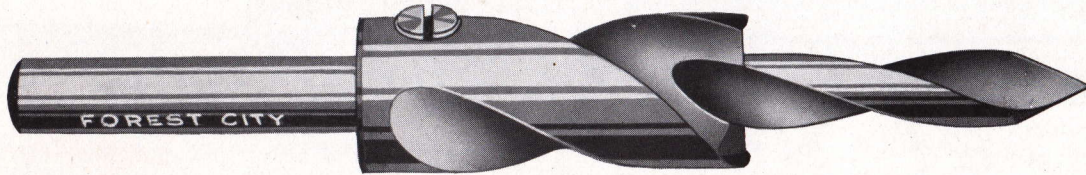
Add prices of the diameter of large part and small part to get list price, see page 44.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Adjustable Countersink Drill for Wood No. 123



This Countersink Drill is made with an adjustable cutter fastened by set screw on the inside Drill, on the larger sizes only.

For smaller size Drills, see our No. 122, page 32.

Length of Countersink Cutter about 2 inches.

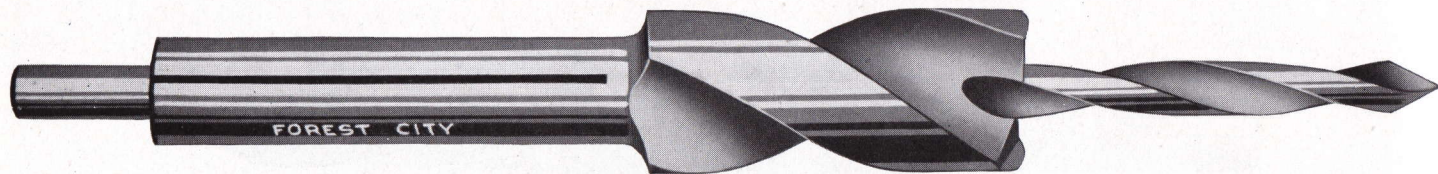
Add prices of the diameter of large part and small part to get list price, see page 44.

When ordering, specify diameter of small part, also diameter of large part.

**When Ordering Use List Number.**

WRITE FOR DISCOUNTS

## Adjustable Countersink Drill for Wood No. 122



This Countersink is made so Drill runs through, and can be readily adjusted any length desired, the shank being split, thereby permitting, when set screw is fastened on shank, same will clinch and firmly hold inside Drill.

Countersink part is made either beveled or square, suitable for countersinking for screw heads, bolts and washers, and is extensively used in Furniture Factories and Wagon Shops.

Length of Countersink,  $4\frac{1}{4}$  inches.

Total length of Drill and Countersink,  $6\frac{1}{2}$  inches.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter.

When ordering, specify diameter of small part, also diameter of large part.

Add prices of the diameter of large part and small part to get list price, see page 44.

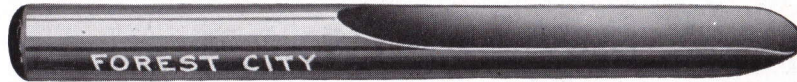
**When Ordering Use List Number.**

WRITE FOR DISCOUNTS



## Spoon Bit for Wood

No. 127  
Straight Shank.



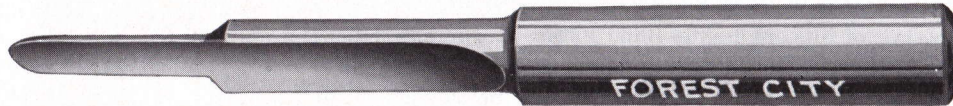
Specify length of groove wanted.

No. 126  
Straight Shank.



Specify length and diameter of grooved parts wanted.

No. 125  
Shank  $2\frac{1}{4} \times \frac{1}{2}$



Specify length and diameter of grooved parts wanted.

Above pattern Tools are well known to many users and are very practical for certain classes of work, such as boring holes in brush backs, also chair seats and chair backs.

All Spoon Bits smaller than  $\frac{1}{2}$  inch are furnished with straight shank.

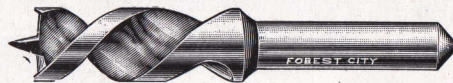
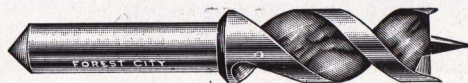
Bits  $\frac{1}{2}$  inch and larger, furnished with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

Price List, see page 44.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Forest City Blind Stile Bit No. 401



This style of Bits are used in Blind Boring Machines. Made right and left.  
Regular twist one inch long, Brad point.  
Regular shank one inch long by  $\frac{1}{4}$  inch diameter.  
Price List, see pages 16 and 17.

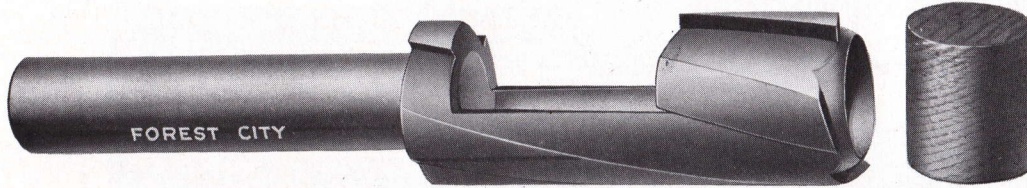
When Ordering Use List Number.

WRITE FOR DISCOUNTS



# Forest City Spiral Plug Cutter No. 600

THE BEST AND MOST PRACTICAL PLUG CUTTING TOOL  
EVER PLACED ON THE MARKET



## PRICE LIST.

Size.	Price Each.
3-8 inch.....	\$2 00 each net
7-16 ".....	2 00 " "
1-2 ".....	2 00 " "
9-16 ".....	2 00 " "
5-8 ".....	2 00 " "
11-16 ".....	2 25 " "
3-4 ".....	2 50 " "
13-16 ".....	2 75 " "
7-8 ".....	3 00 " "
15-16 ".....	3 25 " "
1 ".....	3 50 " "
1 1-8 ".....	4 00 " "
1 1-4 ".....	4 50 " "
1 3-8 ".....	5 00 " "
1 1-2 ".....	5 50 " "
1 5-8 ".....	6 00 " "
1 3-4 ".....	6 50 " "
1 7-8 ".....	7 00 " "
2 ".....	7 50 " "

A glance at the above cut will readily show its superior advantage and practical construction in cutting plugs.

This Plug Cutter is made of several spiral cutters, with sufficient room to carry away all chips, thereby assuring an easy and practical cutting tool, free from choking and binding.

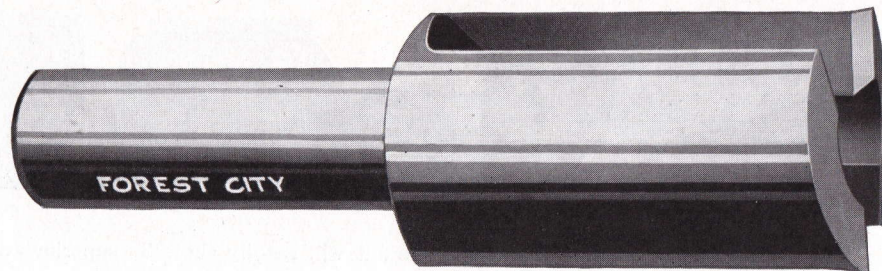
This Cutter is made in all sizes and will cut plugs in any kind of wood, such as poplar, oak, hard maple and mahogany, and can be used in any ordinary Boring Machine. It is used to the best advantage in the manufacturing of chairs, tables and furniture, and in all work where plugs are used for the purpose of plugging up holes where screws are countersunk.

This Plug Cutter is made with the regular standard shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, and the plug cutting barrel  $2\frac{1}{4}$  inches long, making same  $4\frac{1}{2}$  inches over all.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Forest City Improved Routing and Mortising Bit No. 405



**This is the best tool ever placed on the market for doing all kinds of routing and mortising.**

This tool can be made any size desired from  $\frac{3}{4}$ -inch to 2-inch, and is used to the best advantage in rebating, grooving, mortising and gaining, and for light routing and dadoing. A  $\frac{3}{4}$ -inch and 1-inch tool can be used with regular standard  $\frac{1}{2}$ -inch shank, in any High Speed Boring Machine to the best advantage.

These tools can also be used in Hollow Mortising Machines with special shank attachment for same. Prices and further information furnished on request.

**When Ordering Use List Number.**

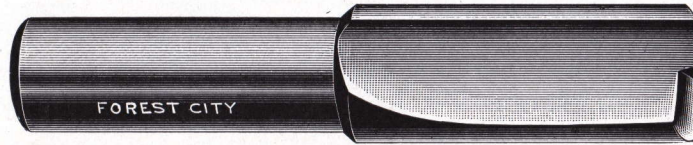
**WRITE FOR DISCOUNTS**



## Router Bit No. 400

### STANDARD PRICE LIST.

Size.	Each.
4-16 inch.....	\$0 60
5-16 ".....	60
6-16 ".....	60
7-16 ".....	75
8-16 ".....	90
9-16 ".....	1 05
10-16 ".....	1 20
12-16 ".....	1 45
14-16 ".....	1 70
16-16 ".....	1 95
18-16 ".....	2 20
20-16 ".....	2 50
22-16 ".....	2 75
24-16 ".....	3 00
26-16 ".....	3 30
28-16 ".....	3 55
30-16 ".....	3 85
32-16 ".....	4 15



Above style of Routing Bit is regularly used in Sash, Door and Blind Relishing and Mortising Machines.

Made with regular shank,  $1\frac{1}{2}$  inch long by  $\frac{1}{2}$  inch diameter. Twist  $1\frac{1}{2}$  inch long, 3 inches over all.

## Straight Shank Router Bit No. 406



Price per dozen \$5.00, Size 5-32, 3-16, 7-32, 1-4, 9-32, 5-16, 11-32, 3-8.

This style of Router Bit is one of the best tools made for routing, mortise cleaning, grooving, and many other kinds of work similar. They are generally made in the smaller sizes.

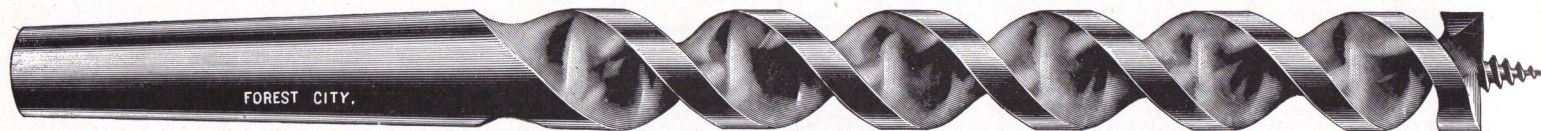
Length over all about 2 inches.

Shanks same diameter as Bit. Also made with 1 inch long by  $\frac{1}{4}$  inch diameter shank.

**When Ordering Use List Number.**

**WRITE FOR DISCOUNTS**

## Hub Bits No. 119



Made promptly to order.

Suitable for any kind of heavy work, especially end boring.

Name complete dimensions. Price list page 39.

This bit is made very stiff and will not follow the grain.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

## Hub Augers No. 120



Suitable for boring extra large and long holes at any angle in any kind of stock.

Name complete dimensions. Price list same as Hub Bits, page 39.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

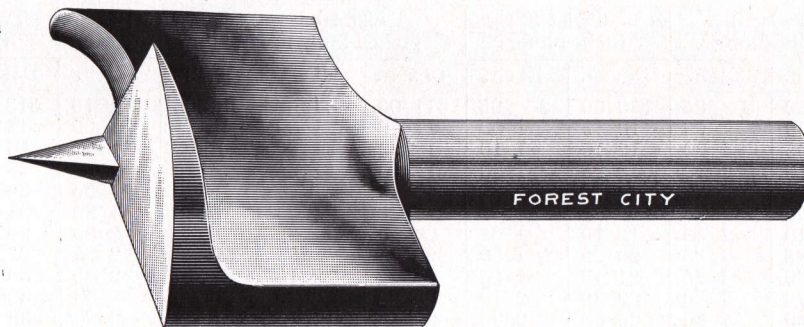


## Hub Bit Price List

Size.	Twist 6 inches long		Twist 8 inches long		Twist 10 inches long		Twist 12 inches long		Twist 14 or 16 inches long	
	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.	Dozen.	Each.
6-16	\$ 9 00	\$ 85	\$10 00	\$ 95	\$11 00	\$ 1 00	\$12 00	\$ 1 15	\$13 75	\$ 1 25
7-16	9 50	90	10 45	1 00	11 40	1 05	12 85	1 20	14 50	1 30
8-16	10 95	1 00	12 10	1 10	13 10	1 20	14 90	1 35	16 65	1 50
9-16	12 10	1 10	13 25	1 20	14 50	1 35	16 45	1 50	18 40	1 70
10-16	13 25	1 20	14 55	1 35	15 85	1 45	18 00	1 65	20 10	1 85
11-16	14 40	1 35	15 80	1 50	17 25	1 55	19 50	1 80	21 90	2 00
12-16	16 10	1 50	18 10	1 65	20 10	1 80	22 60	2 00	25 10	2 20
13-16	17 85	1 65	20 00	1 80	22 30	1 95	25 00	2 20	27 90	2 45
14-16	19 30	1 75	21 70	1 95	24 10	2 15	27 10	2 40	30 10	2 70
15-16	20 70	1 90	23 30	2 10	25 90	2 30	29 20	2 60	32 40	2 90
16-16	22 50	2 00	25 30	2 25	28 10	2 50	31 60	2 80	35 10	3 15
17-16	24 20	2 15	27 25	2 40	30 25	2 70	34 00	3 05	37 80	3 40
18-16	25 90	2 30	29 20	2 55	32 40	2 90	36 50	3 30	40 50	3 60
19-16	27 60	2 45	31 10	2 75	34 50	3 10	38 90	3 50	43 10	3 85
20-16	29 40	2 60	33 10	3 00	36 75	3 30	41 40	3 70	45 90	4 10
21-16	31 00	2 75	35 00	3 15	38 75	3 50	43 80	3 95	48 50	4 35
22-16	32 80	2 95	36 90	3 30	41 00	3 65	46 20	4 15	51 20	4 60
23-16	34 50	3 10	38 80	3 50	43 10	3 85	48 50	4 35	53 90	4 90
24-16	36 25	3 25	40 80	3 70	45 30	4 05	51 00	4 60	56 60	5 15
25-16	38 00	3 40	42 80	3 85	47 50	4 25	53 50	4 85	59 40	5 45
26-16	39 70	3 55	44 80	4 00	49 60	4 45	56 00	5 10	62 00	5 70
27-16	41 40	3 70	46 80	4 15	51 75	4 70	58 50	5 35	64 70	5 90
28-16	43 20	3 85	48 80	4 35	54 00	4 95	61 00	5 60	67 50	6 10
29-16	44 90	4 00	50 80	4 60	56 20	5 15	63 50	5 80	70 20	6 35
30-16	46 60	4 15	52 80	4 80	58 00	5 35	66 00	6 00	72 50	6 60
31-16	48 30	4 30	54 80	5 00	60 50	5 55	68 50	6 20	75 70	6 90
32-16	50 00	4 50	56 80	5 20	63 00	5 75	71 00	6 40	79 00	7 20

WRITE FOR DISCOUNTS

## Machine Center Bit No. 115



We recommend our Center Bits for all kinds of boring when not so deep that it is necessary to have twist to carry away the chips. These Tools work easily and do not burn or bind, and are especially adapted for shallow boring and will not split light stock.

Name complete dimensions. We make this bit up to 12 inches diameter.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

Size, Inch,	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5
Price, each,	\$ .60	.85	1.10	1.35	1.60	1.95	2.30	2.65	3.00	3.35	3.70	4.05	4.40	5.40	6.40	7.70	9.00

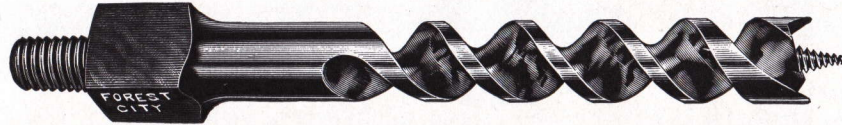
Other Sizes Made Promptly to Order.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Screw Shank Dowell Bit No. 110



For Prybil Machine

Our Dowell Bits are accurate in size and highly polished, carefully tempered and thoroughly tested.

We carry a complete stock of all sizes listed.

Standard Screw Shank Dowell Bits have  $2\frac{1}{2}$  inch twist, **5-16 No. 20** screw shank, Jennings pattern, and are  $4\frac{1}{2}$  inches over all, and made to fit the Prybil machine. We can furnish these in the Snell pattern when desired.

We also carry a complete stock of **7-16 No. 14** Screw Shank Dowell Bits which we can furnish when specified.

Specify diameter and number Screw shank wanted.

Sizes in 16ths,	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Price per dozen,	\$5.80	5.40	5.80	6.20	6.80	7.20	7.60	8.00	8.50	9.00	9.60	10.20	10.80	11.40

### Left Hand and Special Screw Shank Dowell Bits

Made to order promptly at special prices, which will be quoted upon receipt of complete specifications.

When Ordering Use List Number.

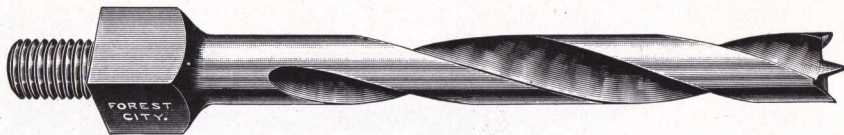
WRITE FOR DISCOUNTS

## PRICE LIST.

Diameter	Price each	Length over all
6-32 inch	\$ 90	5 1-2
7-32 "	90	6
8-32 "	1 05	6 1-4
9-32 "	1 12	"
10-32 "	1 20	"
11-32 "	1 27	"
12-32 "	1 35	"
13-32 "	1 42	"
14-32 "	1 50	"
15-32 "	1 65	"
16-32 "	1 80	"
17-32 "	1 95	"
18-32 "	2 10	"
19-32 "	2 25	"
20-32 "	2 40	"
21-32 "	2 55	"
22-32 "	2 70	"
23-32 "	2 85	"
24-32 "	3 00	"
25-32 "	3 30	"
26-32 "	3 60	"
27-32 "	3 75	"
28-32 "	3 90	"
29-32 "	4 20	"
30-32 "	4 50	"
31-32 "	4 80	"
32-32 "	5 10	"

## Screw Shank Drill No. 203

BRAD POINT

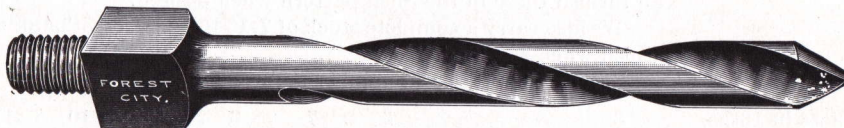


Standard size of this drill have 5-16 No. 20 Screw shank, Brad Point, 4½ inches over all, and are made to fit Prybil machine. Name complete dimensions.

We also carry a complete stock of 7-16 No. 14 Screw Shank Drills which we can furnish when specified.

## Screw Shank Drill No. 204

DRILL POINT



Our screw Shank Drills are made to fit Prybil machine and are made with 5-16 No. 20 screw shank, 4½ inches over all. Drill point.

Name complete dimensions. Price list, add fifty per cent. to above list.

We also carry a complete stock of 7-16 No. 14 Screw Shank Drills which we can furnish when specified.

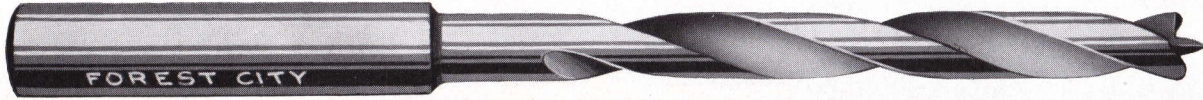
When Ordering Use List Number

WRITE FOR DISCOUNTS



# Machine Drill for Wood No. 200

BRAD POINT



## PRICE LIST.

Diameter	Price each	Length over all
6-32 inch	\$ 60	5 1-2
7-32 "	60	6
8-32 "	70	6 1-4
9-32 "	75	"
10-32 "	80	"
11-32 "	85	"
12-32 "	90	"
13-32 "	95	"
14-32 "	1 00	"
15-32 "	1 10	"
16-32 "	1 20	"
17-32 "	1 30	"
18-32 "	1 40	"
19-32 "	1 50	"
20-32 "	1 60	"
21-32 "	1 70	"
22-32 "	1 80	"
23-32 "	1 90	"
24-32 "	2 00	"
25-32 "	2 20	"
26-32 "	2 40	"
27-32 "	2 50	"
28-32 "	2 60	"
29-32 "	2 80	"
30-32 "	3 00	"
31-32 "	3 20	"
32-32 "	3 40	"

This style drill for boring wood works like the ordinary bit except that the twist is made heavier and in a drill pattern. It feeds easily and cuts freely.

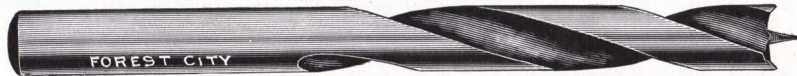
It can be run at any desired speed and will not split the wood.

These drills have shanks  $2\frac{1}{4}$  inches by  $\frac{1}{2}$  inch diameter, unless otherwise ordered.

Add 10 cents additional for each extra inch of twist.

## Straight Shank Machine Drills for Wood No. 200 $\frac{1}{2}$

BRAD POINT



This style drill for boring wood works like the ordinary bit except that the twist is made heavier and in a drill pattern. It feeds easily and cuts freely.

It can be run at any desired speed and will not split the wood.

All sizes made to order promptly. Name complete dimensions.

These Drills have same diameter shank as twist.

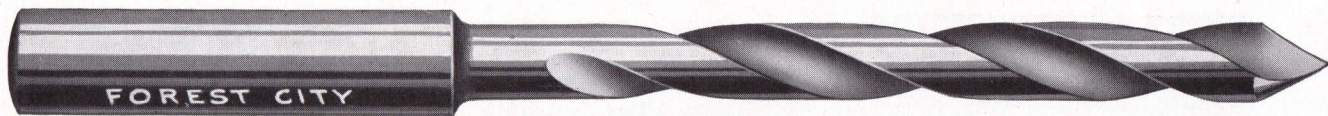
Add 10 cents additional for each extra inch of twist.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

# Machine Drill for Wood No. 201

## DRILL POINT



### PRICE LIST.

Diameter	Price each	Length over all
6-32 inch	\$ 50	5 1-2
7-32 "	55	6
8-32 "	60	6 1-4
9-32 "	65	"
10-32 "	70	"
11-32 "	75	"
12-32 "	80	"
13-32 "	85	"
14-32 "	90	"
15-32 "	95	"
16-32 "	1 00	"
17-32 "	1 10	"
18-32 "	1 20	"
19-32 "	1 30	"
20-32 "	1 40	"
21-32 "	1 50	"
22-32 "	1 60	"
23-32 "	1 70	"
24-32 "	1 85	"
25-32 "	2 00	"
26-32 "	2 15	"
27-32 "	2 30	"
28-32 "	2 45	"
29-32 "	2 60	"
30-32 "	2 75	"
31-32 "	2 90	"
32-32 "	3 05	"

This style of Drill is recommended for hard wood boring when holes are not very large or deep. These Drills have shanks  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

All sizes made to order promptly.

Name complete dimensions.

Add 10 cents additional for each extra inch of twist.

# Straight Shank Machine Drill for Wood No. 201 $\frac{1}{2}$

## DRILL POINT



These Drills have same diameter shank as twist.

This style of Drill is recommended for hard wood boring when holes are not very large or deep.

All sizes made to order promptly.

Name complete dimensions.

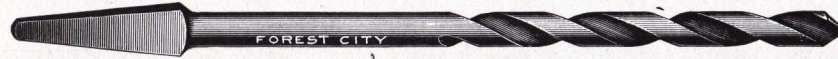
Add 10 cents additional for each extra inch of twist.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Brace Drill for Wood No. 202



Particularly adapted for boring in hard wood and will not be injured by coming in contact with a nail or screw. It will not split the wood, nor turn aside for the grain or knots. Its speed and feed are entirely under the control of the operator.

All sizes made to order promptly.  
Name complete dimensions.

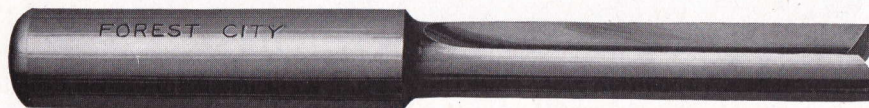
Diameter in 32ds.	Price per dozen	Price each	Diameter in 32ds.	Price per dozen	Price each
2	\$1 60	\$ 15	15	\$5 00	\$ 45
3	1 60	15	16	5 00	45
4	1 60	15	17	5 50	50
5	1 75	18	18	5 50	50
6	2 00	20	19	6 00	55
7	2 50	22	20	6 00	55
8	3 00	25	22	6 50	60
9	3 50	30	24	7 00	65
10	3 50	30	26	7 50	70
11	4 00	35	28	8 00	75
12	4 00	35	30	9 00	85
13	4 50	40	32	10 00	95
14	4 50	40			

We also make Bell Hangers' Drills with long shank for brace.  
Prices quoted on application.

**When Ordering Use List Number.**

**WRITE FOR DISCOUNTS**

## Vibrating Mortise Bit No. 407



We can furnish any diameter desired.

Made to order promptly. Name complete dimensions.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified

Price list see pages 16 and 17.

## Mortise Cleaning Bit No. 402

THE BEST AND FASTEST MORTISE CLEANING BIT MADE



Made with  $2\frac{1}{4} \times \frac{1}{2}$  inch diameter shank, about 5 inches over all.

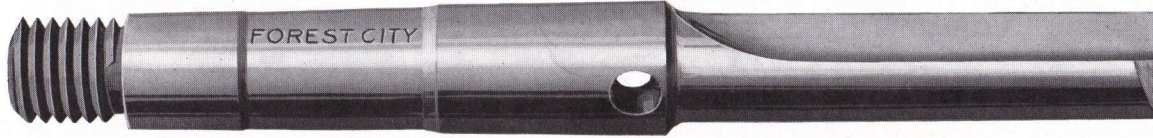
Price list see pages 16 and 17.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Taper Shank Sash Pulley Router Bit No. 403

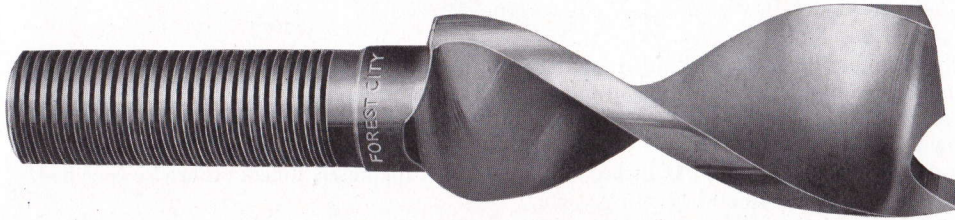


This Bit is used in window frame machines for mortising sash pulley holes.

Made promptly to order upon receipt of complete dimensions.

Size, inches,	5-8	3-4	13-16	7-8	15-16	1	1 1-16	1 1-8	1 3-16	1 1-4	1 3-8	1 1-2
Price each,	\$2.50	2.50	2.50	2.75	2.75	2.50	3.00	2.50	3.00	3.00	3.00	3.50

## Screw Shank Sash Pulley Router Bit No. 404



Made Right and Left Hand

Size, inches,	5-8	3-4	1	1 1-8	1 1-4
Price each,	\$1.00	\$1.00	\$1.50	\$2.00	\$2.00

Made Promptly on Receipt of Order

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Ship Auger Machine Bit No. 301



This style of Bit is recommended for deep boring in large timber and is extensively used by Car, Ship and Bridge builders. Our tools are made very stiff and have large clearance for chips.

Every tool is accurately made and highly finished in the twist so they will work easy and less liable to follow the grain.

Made with regular shank,  $2\frac{1}{4}$  inches long by  $\frac{1}{2}$  inch diameter, unless otherwise specified.

Price list see pages 16 and 17.

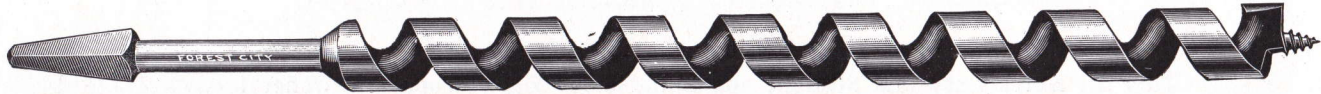
When Ordering Use List Number.

WRITE FOR DISCOUNTS



# Ship Auger Car Bits No. 300

WITH OR WITHOUT SCREW



## Ship Auger Bit No. 300<sup>1/2</sup>



Size in 16ths.	Doz. 12-in. twist.	Doz. 18-in. twist.	Doz. 20-in. twist.
6	\$ 9 00		
7	9 50		
8	10 00	\$15 00	\$18 00
9	10 50	16 50	19 80
10	11 00	18 00	21 30
11	11 50	19 50	23 10
12	12 00	21 00	24 60
13	12 50	22 80	26 70
14	13 00	24 60	28 50
15	14 00	26 40	30 60
16	14 50	28 20	32 40
17	15 50	30 00	34 50
18	16 00	31 80	36 30
19	17 00	33 60	38 40
20	17 50	35 40	40 20
21	18 50	37 80	42 90
22	19 00	40 20	45 30
23	21 50	42 60	48 00
24	22 00	45 00	50 40
25	25 00	48 00	54 00
26	25 50	51 00	57 00
27	28 50	54 00	60 60
28	28 50	57 00	63 60
29	32 50	60 00	67 20
30	32 50	63 00	70 20
31	36 50	66 00	73 80
32	36 50	69 00	76 80

### STANDARD PRICE LIST SHIP AUGER CAR BITS

This pattern shank furnished when specified.

Price List same as Ship Auger Car Bits.

This style of Car Bits are very popular and used extensively by Car, Bridge and Ship Builders, and are especially adapted for boring deep holes in large timber.

Our Tools are made with a good clearance for chips and accurately and highly finished in the twist so they will work easy and bore true in cross grain, angular or end boring.

When Ordering Use List Number

WRITE FOR DISCOUNTS

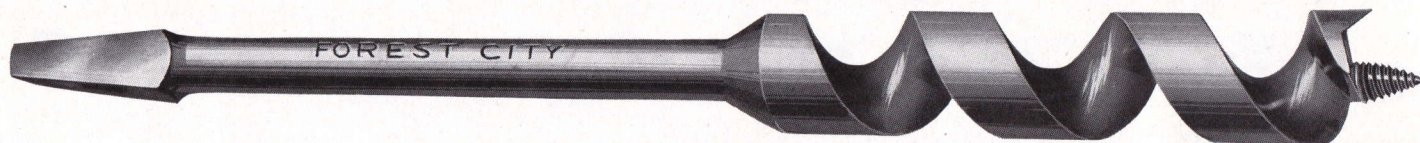
# Forest City Single Twist Auger Bit No. 351

## EXTENSION LIP

### THE CARPENTER'S FAVORITE BECAUSE

This Bit Bores Easy and Straight and Suitable for Hard Wood and General Work.

We carry a complete stock of all sizes listed.



### AUGER BITS.

Standard List, Adopted February 9, 1905.

Sizes in 16ths	3	4	5	6	7	8	9	10	11	12	13
Price per dozen	\$4.50	4.00	4.00	4.00	4.50	5.00	5.50	6.00	7.00	7.00	8.00
Sizes in 16ths	14	15	16	17	18	19	20	21	22	23	24
Price per dozen	\$8.00	9.00	9.00	10.50	10.50	12.00	12.00	13.50	13.50	15.00	15.00
			26	28	30	32-16					
			\$17.00	19.00	21.50	23.00					

### Assorted in Sets

32½ Qrs. 4 to 16-16, 1 each, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, full polish, per set.....	\$7 00
24 Qrs. 4 to 12-16, 1 each, 4, 5, 7, 9, 11, 12, 2 each, 6, 8, 10, full polish, per set.....	5 25
18 Qrs. 4 to 12-16, 1 each, 4, 5, 6, 7, 8, 9, 10, 11, 12, full polish, per set.....	4 00

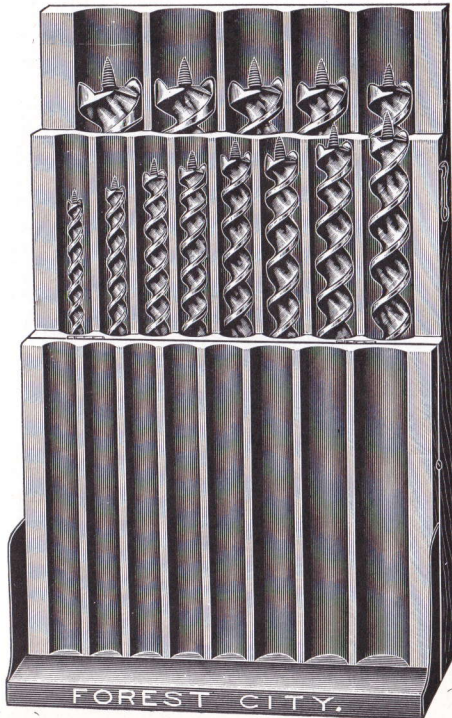
Packed in Bartlett cases when desired, 50c. extra.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Forest City Extension Lip Auger Bits Jennings Pattern in Handy Boxes



This Box is the most popular of all styles because each Bit fits in its proper groove and the tools are exhibited to the best advantage, as the box can be displayed either on the side or standing on end.

It is highly finished in hardwood with brass trimmings and hinges.

Standard List, adopted February 9, 1905.

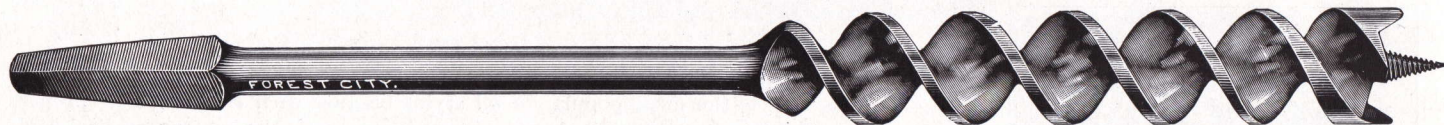
### Assorted in Sets

32½ Qrs. 4 to 16-16, 1 each, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, full polish per set.....	\$7 00
24 Qrs. 4 to 12-16, 1 each, 4, 5, 7, 9, 11, 12; 2 each, 6, 8, 10, full polish, per set.....	5 25
18 Qrs. 4 to 12-16, 1 each, 4, 5, 6, 7, 8, 9, 10, 11, 12, full polish, per set .....	4 00
Packed in Bartlett cases when desired, 50c extra.	

WRITE FOR DISCOUNTS

## Forest City Extension Lip Auger Bits

### No. 50. Jennings Pattern



#### AUGER BITS

Standard List, Adopted February 9, 1905.

Sizes in 16ths	3	4	5	6	7	8	9	10	11	12	13
Price per dozen	\$4.50	4.00	4.00	4.00	4.50	5.00	5.50	6.00	7.00	7.00	8.00
Sizes in 16ths	14	15	16	17	18	19	20	21	22	23	24
Price per dozen	\$8.00	9.00	9.00	10.50	10.50	12.00	12.00	13.50	13.50	15.00	15.00
			26	28	30	32-16					
			17.00	19.00	21.50	23.00					

Our Jennings pattern Auger Bits are drawn from the finest crucible steel. Accurately finished and highly polished. Every Bit is carefully tempered and thoroughly tested. Every Bit stamped "Forest City." Guaranteed to be strictly first-class in Material, Construction, Finish and Temper.

We carry a complete stock of all sizes listed.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

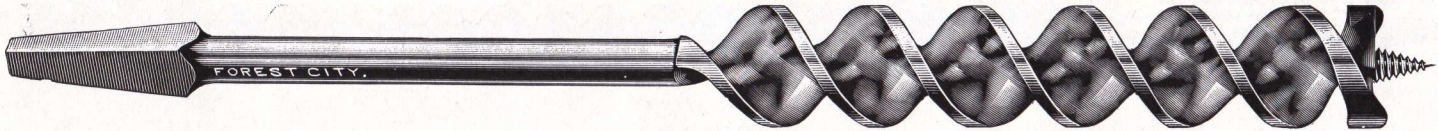


# Snell Pattern Brace Bit No. 80

## ASSORTED IN SETS

32½ Qrs. full polish, per set.....	\$7 00
24 Qrs. full polish, per set.....	5 25
18 Qrs. full polish, per set.....	4 00

Packed in Bartlett cases when desired, 50 cents extra.



## AUGER BITS

Standard List, Adopted February 9, 1905.

Sizes in 16ths	3	4	5	6	7	8	9	10	11	12	13
Price per dozen	\$4.50	4.00	4.00	4.00	4.50	5.00	5.50	6.00	7.00	7.00	8.00
Sizes in 16ths	14	15	16	17	18	19	20	21	22½	23	24
Price per dozen	\$8.00	9.00	9.00	10.50	10.50	12.00	12.00	13.50	13.50	15.00	15.00
			26	28	30	32-16					
			17.00	19.00	21.50	23.00					

Our Snell Pattern Auger Bits are made of a High Grade Steel, accurately finished and highly polished. A tool adapted for all general work. We carry a complete stock of all sizes listed.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

# Jennings Car Bit No. 40

With 12-inch Twist



## CAR BITS

Standard List, Adopted February 9, 1905.

Size in 16ths	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
Price per dozen	\$9.00	9.00	9.00	10.00	11.25	12.50	13.75	15.00	16.25	17.50	19.00	20.50	22.00	24.00	26.00	30.00
			Sets, Qrs.		21	24	32½									
					\$10.50	11.75	15.50									

The Forest City Car Bits are extensively used in Car Shops and have established a reputation for their superior durability and easy working for deep boring.

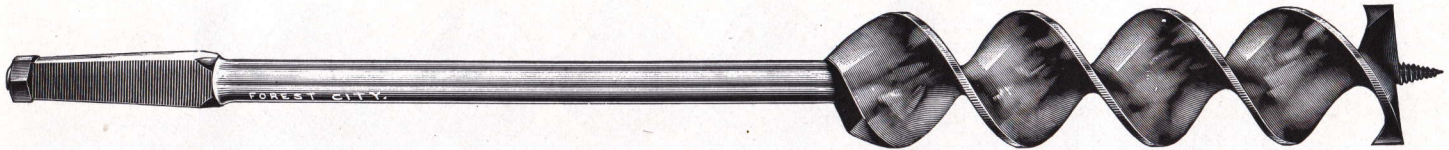
All Forest City Tools are accurately finished and highly polished.

When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Carpenter's Nut Auger No. 20



### NUT AUGERS

Standard List, Adopted February 9, 1905

Sizes in inches	3-8	1-2	5-8	3-4	7-8	1	1 1-8	1 1-4	1 3-8	1 1-2
Price per dozen	\$7.00	8.25	9.50	10.75	12.00	13.25	15.00	17.00	19.00	22.00
Sizes in inches	1 3-4	2	2 1-8	2 1-4	2 1-2	2 3-4	3	3 1-4	3 1-2	
Price per dozen	\$26.00	30.00	35.00	40.00	50.00	70.00	90.00	120.00	150.00	

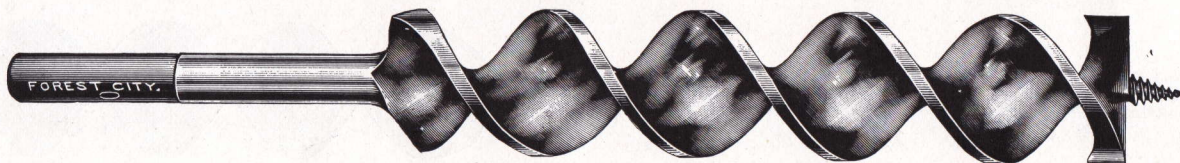
Larger sizes, prices on application.

Our Carpenter Nut Augers are made of a high grade steel. Accurate in size and highly polished, carefully tempered and thoroughly tested. A first class tool in every way.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## Boring Machine Auger No. 111



### BORING MACHINE AUGERS

Standard List, adopted February 9, 1905

Sizes in inches	3-8	1-2	5-8	3-4	7-8	1	1 1-8	1 1-4	1 3-8	1 1-2	1 3-4	2
Price per dozen	\$10.00	10.00	10.00	11.00	13.00	15.00	17.00	19.00	21.00	24.00	28.00	32.00
			Sets, Qrs.		18	23	26	41				
					\$6.00	7.50	9.25	13.50				

This style of Auger is used in Snell, Ajax and other hand boring machines.

The Forest City Boring Machine Augers are made with a large clearance and twist accurately finished and highly polished. A tool strictly first class in material and construction.

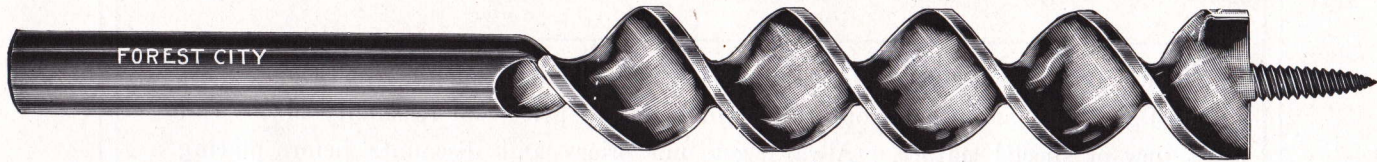
When Ordering Use List Number.

WRITE FOR DISCOUNTS



## Gas Fitters' Auger No. 501

Best Tool Made for Boring Through Plastering



This Style of Auger is especially made for Gas Fitters for Boring through thick plastering and difficult places.

This Auger is made with an extra long Screw so it will easily catch into the wood and thereby eliminate extra labor.

The twist is about 8 inches long, and the shank is 7 inches long made so it can be either threaded or welded on to an extra extension to the shank. Total length over all is about 16 inches.

Price list pages 16 and 17.

When Ordering Use List Number.

WRITE FOR DISCOUNTS

## IN CONCLUSION

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We are also manufacturers of Bell Hangers, Fine-edged Tools and articles of twisted steel generally, and solicit your inquiry in regard to price and feasibility of tools of a new or special nature. Always get our prices and discounts before placing your orders. All requisitions and inquiries promptly answered.

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## FOREST CITY BIT & TOOL COMPANY

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All Tools illustrated in this Catalog are manufactured  
in our shops, thoroughly tested and sold under

**OUR GUARANTEE**



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